

1. What's the Problem?
 - The issue is that oil production will reach a peak in the near future and if sufficient alternatives are not found or created this will have a major impact on life as we now know.
 - Peak oil is the point at which oil is being extracted at a maximum rate and that the production will only decrease in the future.
2. How Close?
 - The US reached a peak in oil field discovery in the 1930's and then reached a peak in production in 1970. This graph shows that the peak world discovery occurred around 1964 and we are 50 years past that. It would follow that the world is very near and arguably already at peak oil.
3. How Much Do We Need?
 - In order to replace all oil imports in the US alone we would need an additional 750 nuclear plants on top of our 104 currently operating. This is equivalent to increasing the production of renewable energy 2000 times
4. What Does This Effect?
 - Drove on 1 gallon of gas and pushed car back it would take ~500 hours. ~12.5 full time work weeks @ \$15/hr = \$7500
 - Average persons food = 400 gallons per person per year.
 - 60W = 1 fit human on bike.
 - Household consumption = 50 fit humans on bikes
5. Temporary Solutions
 - Tight oil from shale and offshore drilling are expected to push US back up to its height in oil production in 1970 by ~2017 (Hydraulic Fracturing, Horizontal Drilling, Canadian Sands)
 - This will satisfy oil needs temporarily.
6. Tight Oil
 - Tight oil is leveling off need for other crude sources.
7. Energy Production
 - Currently coal is leading method in energy production.
 - Coal is dirty to mine and use
 - Natural gas shows promise in the future and is a cleaner fuel
8. Natural Gas
 - Natural gas production from shale is predicted to significantly increase over the next 25years.
9. Utilizing Natural Gas
 - Developing technologies to utilize natural gas in industries other than energy production will greatly reduce need for oil.
 - Honda Civic designed to run on Natural Gas (38hwy, 31city gasoline-gallon equivalent)
Range up to 250 Miles
 - Lower Hp higher weight (110hp vs 140hp) (2848lbs vs 2705lbs)
 - \$1.93/Gallon gasoline equivalent
10. Solution
 - Most of these are still only temporary solutions and eventually will encounter the same problems wil peak and declining production.
 - Only way I see to continuing living is to adjust lifestyles to live "off the Grid"
 - Depending on the land around you and local markets.